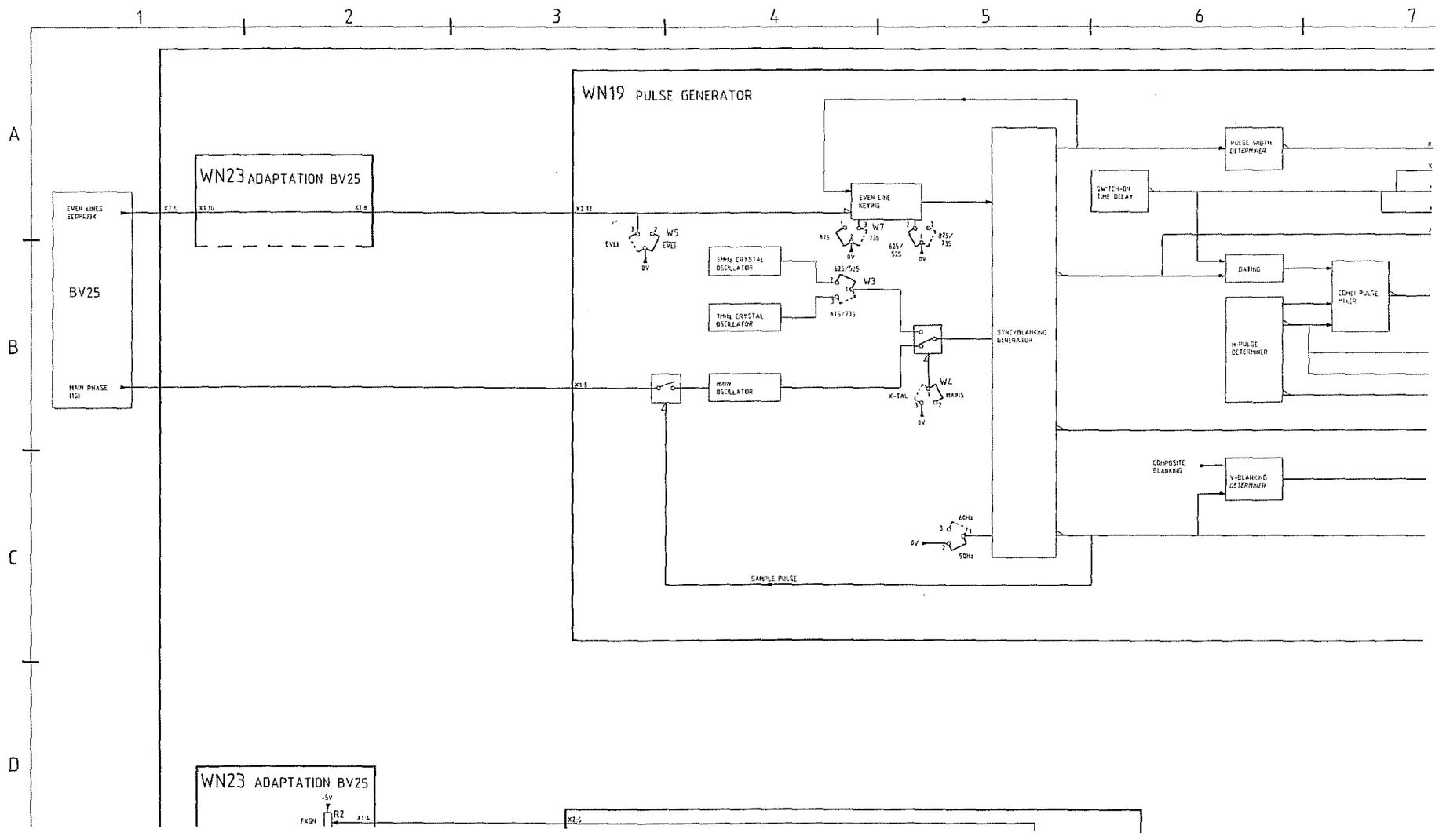
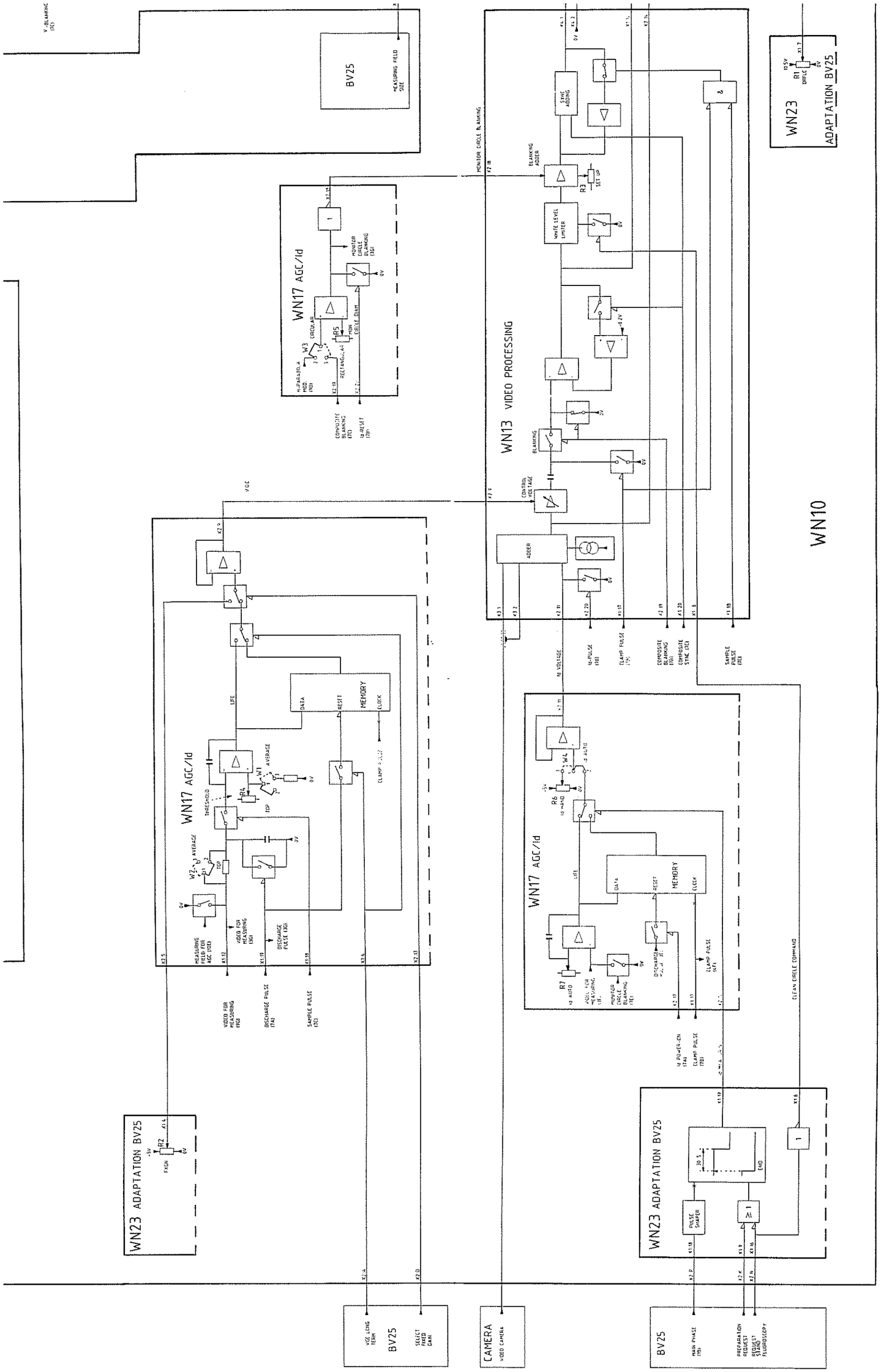

1
2
3
4
5
6
7
A
B
C
D
WN19 PULSE GENERATOR
WN23 ADAPTATION BV25
EVEN LINES SCRPOFIX
BV25
MAIN PHASE DIGI
X2.U
X1.G
X1.A
X2.12
X1.8
EVEN LINE KEYING
EVEN
W5
EVEN
0V
875
W7
735
625/525
875/735
5MHz CRYSTAL OSCILLATOR
625/525
W3
7MHz CRYSTAL OSCILLATOR
875/735
MAINS OSCILLATOR
X-TAL
W4
MAINS
0V
SYNC/BLANKING GENERATOR
PULSE WIDTH DETERMINER
SWITCH-ON TIME DELAY
GATING
COMBI PULSE MIXER
H-PULSE DETERMINER
COMPOSITE BLANKING
V-BLANKING DETERMINER
60Hz
50Hz
0V
SAMPLE PULSE
WN23 ADAPTATION BV25
-5V
R2
FXGN
X1.4
X2.5


WN10
WN13 VIDEO PROCESSING
WN17 AGC/Id
WN23 ADAPTATION BV25
BV25
CAMERA
MEMORY
ADDER
BLANKING
WHITE LEVEL LIMITER
SYNC ADDING
BLANKING ADDER
MONITOR CIRCLE BLANKING
CONTROL VOLTAGE
SAMPLE PULSE
CLAMP PULSE
COMPOSITE BLANKING
COMPOSITE SYNC
DISCHARGE PULSE
VIDEO FOR MEASURING
MEASURING FIELD FOR AGC
THRESHOLD
AVERAGE
PULSE SHAPER
END
≥ 1
Section Z
XTV5- FB TV Control Unit

5 6 7 8 9 10 11 12

A B C D E F

SYNC/BLANKING GENERATOR

W4 MAINS

PULSE WIDTH DETERMINER

SWITCH-ON TIME DELAY

GATING

COMBI PULSE MIXER

H-PULSE DETERMINER

COMPOSITE BLANKING

V-BLANKING DETERMINER

X2.14 DISCHARGE PULSE (5HI 13E)
X2.19 (4 POWER-ON (3G)
X2.16 (6 RESET (6E)
X3.18 COMPOSITE BLANKING (6E) (5G)
X2.11 X1.C COMBI PULSE
X3.12 H-BLANKING (9C)
X2.12 (2 PULSE (5G)
X1.15 CLAMP PULSE (4HV 15G 13G)
X2.9 COMPOSITE SYNC (5G)
X1.11 V-BLANKING (9D)
X1.16 SAMPLE PULSE (4HI 15D) 13E) (5H)

CAMERA
COMBI PULSE

H.V. CCU READY
H-SCAN REVERSE COMMAND
BV25

X2.C

WN23 ADAPTATION BV25

HORIZONTAL W1
VERTICAL W2
= 1
1

SAMPLE PULSE (7C)

WN11 CAMERA CONTROL

R2 HOSH 2
R1 HOSH 1
R5 VESH 2
R4 VESH 1
R3 VEAM
W2 DGU
VERGGT
MP1
MP2
A x1b
ADDER
VOLTAGES SOURCE
R12 FAVORG
R11 ALOZRG
R10 ALOMG
CURRENT SOURCE R9 STFC
W1 HL 625 35
CURRENT SOURCE R8 HOAM

CAMERA

H-SYNC
H-CAM REVERSE V-SYNC
V-SHIFT
H-DRIVE
DYN FOCUS
V-AMPLITUDE
ALIGNMENT CONTROL 2
ALIGNMENT CONTROL 1
STAT FOCUS
H-AMPLITUDE

WN21 MONITORING

H-BLANKING (7B)
V-BLANKING (7C)
PARABOLIC VOLTAGE SHAPER
W1 1-2 SCANNING 3/4 1-3 SCANNING 4/3
CIRCLE GEOMETRY R1
625/525
H-PARABOLA MOD (9D)

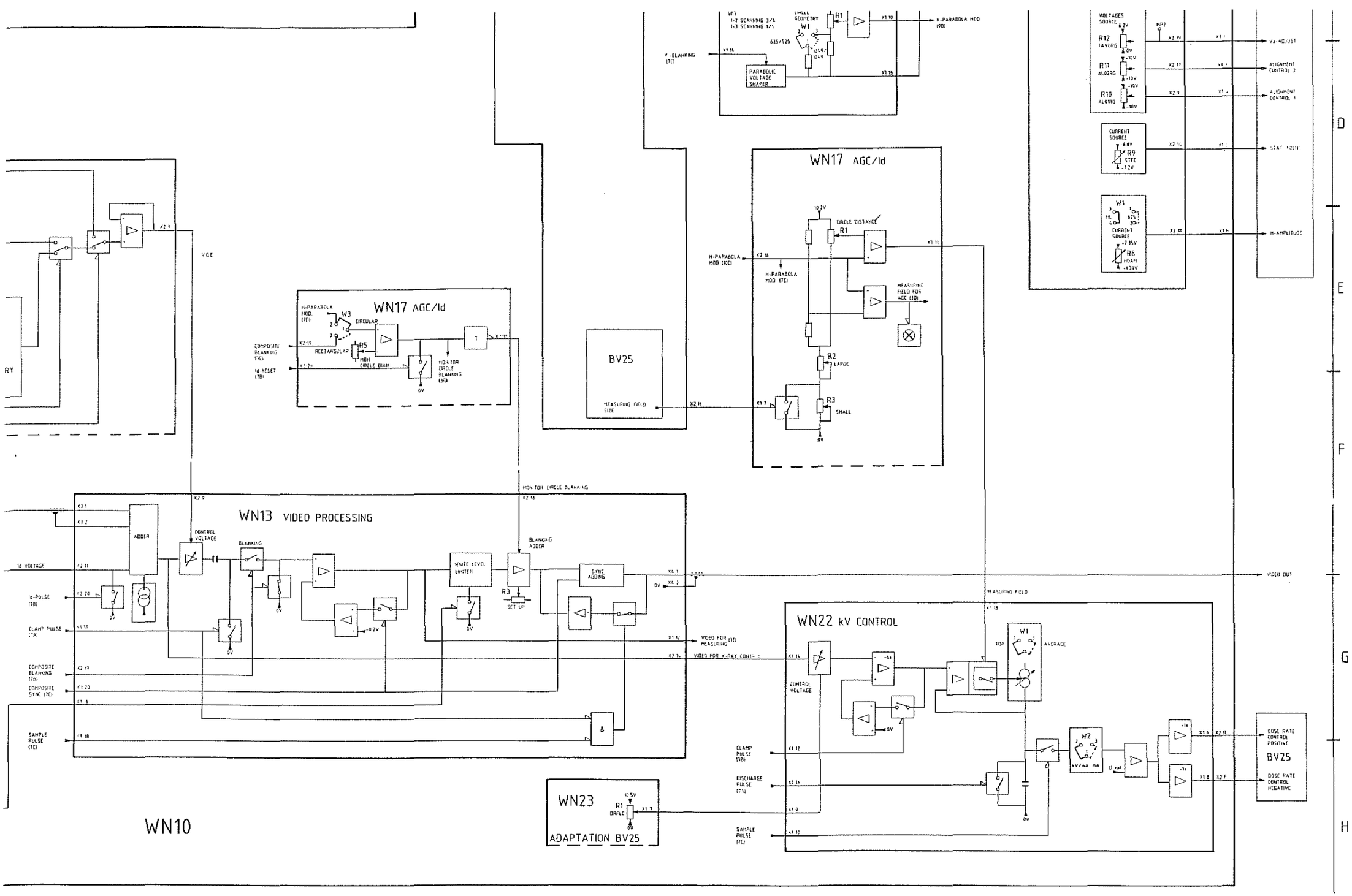
WN17 AGC/Id

H-PARABOLA MOD (5D)
W3 CIRCULAR RECTANGULAR
R5 MON CIRCLE DIAM
COMPOSITE BLANKING (7C)
H-RESET (7B)
MONITOR CIRCLE BLANKING (3G)
X2.9 VGC

BV25
MEASURING FIELD SIZE

WN17 AGC/Id

10.2V
CIRCLE DISTANCE R1
H-PARABOLA MOD (10C)
H-PARABOLA MOD. (7E)
MEASURING FIELD FOR AGC (3D)
R2 LARGE
R3 SMALL



SIMPLIFIED CIRCUIT DIAGRAM
OF T.V. CONTROL UNIT

WN